

Substitute for form 1449/PTO (Revised 07/2007)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/589,222
				Filing Date	May 11, 2007
				First Named Inventor	Joseph M. DeSimone
				Art Unit	1635
				Examiner Name	To be Assigned
Sheet	1	of	7	Attorney Docket Number	035052/339400

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
	4	US-3,810,874	05-14-1974	Mitsch <i>et al.</i>	
	5	US-4,352,874	10-05-1982	Land <i>et al.</i>	
	6	US-4,353,977	10-12-1982	Gerber <i>et al.</i>	
	7	US-4,356,257	10-26-1982	Gerber	
	8	US-4,359,526	11-16-1982	Walworth	
	9	US-4,512,848	04-23-1985	Deckman <i>et al.</i>	
	10	US-4,663,274	05-05-1987	Slafer <i>et al.</i>	
	11	US-4,818,801	04-04-1989	Rice <i>et al.</i>	
	12	US-5,041,359	08-20-1991	Kooi	
	13	US-5,175,030	12-29-1992	Lu <i>et al.</i>	
	14	US-5,189,135	02-23-1993	Cozzi <i>et al.</i>	
	15	US-5,259,926	11-09-1993	Kuwabara <i>et al.</i>	
	16	US-5,273,146	12-28-1993	Nakamura <i>et al.</i>	
	17	US-5,279,689	01-18-1994	Shvartsman	
	18	US-5,368,789	11-29-1994	Kamitakahara <i>et al.</i>	
	19	US-5,425,848	06-20-1995	Haisma <i>et al.</i>	
	20	US-5,512,131	04-30-1996	Kumar <i>et al.</i>	
	21	US-5,630,902	05-20-1997	Galarneau <i>et al.</i>	
	22	US-5,753,150	05-19-1998	Martin <i>et al.</i>	
	23	US-5,772,905	06-30-1998	Chou	
	24	US-5,817,242	10-06-1998	Biebuyck <i>et al.</i>	
	25	US-5,965,631	10-12-1999	Nicolson <i>et al.</i>	
	26	US-5,994,133	11-30-1999	Meijs <i>et al.</i>	
	27	US-6,027,595	02-22-2000	Suleski	
	28	US-6,027,630	02-22-2000	Cohen	
	29	US-6,083,971	07-04-2000	Diederich <i>et al.</i>	

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U. S. PATENT DOCUMENTS					
	30	US-6,204,296 B1	03-20-2001	Weers <i>et al.</i>	
	31	US-6,207,758 B1	03-27-2001	Brinati <i>et al.</i>	
	32	US-6,228,318 B1	05-08-2001	Nakamae <i>et al.</i>	
	33	US-6,247,986 B1	06-19-2001	Chiu <i>et al.</i>	
	34	US-6,284,072 B1	09-04-2001	Ryan <i>et al.</i>	
	35	US-6,294,450 B1	09-25-2001	Chen <i>et al.</i>	
	36	US-6,300,042 B1	10-09-2001	Mancini <i>et al.</i>	
	37	US-6,306,563 B1	10-23-2001	Xu <i>et al.</i>	
	38	US-6,334,960 B1	01-01-2002	Willson <i>et al.</i>	
	39	US-6,355,198 B1	03-12-2002	Kim <i>et al.</i>	
	40	US-6,375,870 B1	04-23-2002	Visovsky <i>et al.</i>	
	41	US-6,422,528 B1	07-23-2002	Domeier <i>et al.</i>	
	42	US-6,517,995 B1	02-11-2003	Jacobson <i>et al.</i>	
	43	US-6,518,189 B1	02-11-2003	Chou	
	44	US-6,555,221 B1	04-29-2003	Komiyama <i>et al.</i>	
	45	US-6,607,683 B1	08-19-2003	Harrington	
	46	US-6,645,432 B1	11-11-2003	Anderson <i>et al.</i>	
	47	US-6,649,715 B1	11-18-2003	Smith <i>et al.</i>	
	48	US-6,653,030 B2	11-25-2003	Mei <i>et al.</i>	
	49	US-6,656,308 B2	12-02-2003	Hougham <i>et al.</i>	
	50	US-6,656,398 B2	12-02-2003	Birch <i>et al.</i>	
	51	US-6,660,192 B2	12-09-2003	Kim <i>et al.</i>	
	52	US-6,663,820 B2	12-16-2003	Arias <i>et al.</i>	
	53	US-6,689,900 B2	02-10-2004	Wang <i>et al.</i>	
	54	US-6,696,220 B2	02-24-2004	Bailey <i>et al.</i>	
	55	US-6,699,347 B2	03-02-2004	Lehrter <i>et al.</i>	
	56	US-6,752,942 B2	06-22-2004	Kim <i>et al.</i>	
	57	US-6,753,131 B1	06-22-2004	Rogers <i>et al.</i>	

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U. S. PATENT DOCUMENTS					
	58	US-6,755,984 B2	06-29-2004	Lee <i>et al.</i>	
	59	US-6,759,182 B2	07-09-2004	Ikeda <i>et al.</i>	
	60	US-6,770,721 B1	08-03-2004	Kim	
	61	US-6,783,717 B2	08-31-2004	Hougham <i>et al.</i>	
	62	US-6,808,646 B1	10-26-2004	Jeans	
	63	US-6,809,356 B2	10-26-2004	Chou	
	64	US-6,828,244 B2	12-07-2004	Chou	
	65	US-6,829,050 B2	12-07-2004	Ikeda <i>et al.</i>	
	66	US-6,849,558 B2	02-01-2005	Schaper	
	67	US-6,860,956 B2	03-01-2005	Bao <i>et al.</i>	
	68	US-6,869,557 B1	03-22-2005	Wago <i>et al.</i>	
	69	US-6,900,881 B2	05-31-2005	Sreenivasan <i>et al.</i>	
	70	US-6,923,930 B2	08-02-2005	Ling <i>et al.</i>	
	71	US-6,929,899 B2	08-16-2005	Pottebaum <i>et al.</i>	
	72	US-6,932,934 B2	08-23-2005	Choi <i>et al.</i>	
	73	US-6,936,181 B2	08-30-2005	Bulthaup <i>et al.</i>	
	74	US-6,936,194 B2	08-30-2005	Watts	
	75	US-6,953,653 B2	10-11-2005	Smith <i>et al.</i>	
	76	US-6,964,793 B2	11-15-2005	Willson <i>et al.</i>	
	77	US-6,976,424 B2	12-20-2005	Bruno <i>et al.</i>	
	78	US-7,070,406 B2	07-04-2006	Jeans	
	79	US-7,117,790 B2	10-10-2006	Kendale <i>et al.</i>	
	80	US-7,254,278 B2	08-07-2007	Jung	
	81	US-7,294,294 B1	11-13-2007	Wago <i>et al.</i>	
	82	US2003/0006527 A1	01-09-2003	Rabolt <i>et al.</i>	
	83	US2003/0062334 A1	04-03-2003	Lee <i>et al.</i>	
	84	US2003/0071016 A1	04-17-2003	Shih <i>et al.</i>	
	85	US2003/0139521 A1	07-24-2003	Linert <i>et al.</i>	

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U. S. PATENT DOCUMENTS					
	86	US2003/0205552 A1	11-06-2003	Hansford <i>et al.</i>	
	87	US2004/0028804 A1	02-12-2004	Anderson <i>et al.</i>	
	88	US2004/0046271 A1	03-11-2004	Watts	
	89	US2004/0053009 A1	03-18-2004	Ozin <i>et al.</i>	
	90	US2004/0065252 A1	04-08-2004	Sreenivasan <i>et al.</i>	
	91	US2004/0110856 A1	06-10-2004	Young <i>et al.</i>	
	92	US2004/0137734 A1	07-15-2004	Chou <i>et al.</i>	
	93	US2004/0202865 A1	10-14-2004	Homola <i>et al.</i>	
	94	US2004/0217085 A1	11-04-2004	Jeans	
	95	US2004/0219246 A1	11-04-2004	Jeans	
	96	US2005/0038180 A1	02-17-2005	Jeans	
	97	US2005/0061773 A1	03-24-2005	Choi <i>et al.</i>	
	98	US2005/0120902 A1	06-09-2005	Adams <i>et al.</i>	
	99	US2006/0188598 A1	08-24-2006	Jeans	
	100	US2008/0038398 A1	02-14-2008	Wago <i>et al.</i>	

FOREIGN PATENT DOCUMENTS						
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	101	EP 1 551 066 A1	07-06-2005	Daikin Industries, Ltd.		
	102	WO 96/017266	06-06-1996	Honeywell, Inc.		
	103	WO 96/031548	10-10-1996	Ciba-Geigy AG		
	104	WO 96/031791	10-10-1996	Ciba-Geigy AG		
	105	WO 02/014078 A2	02-21-2002	Surface Logix, Inc.		
	106	WO 03/005124 A1	01-16-2003	Obducat Aktiebolag		
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FOREIGN PATENT DOCUMENTS						
	107	WO 03/031096 A2	04-17-2003	Brewer Science, Inc.		
	108	WO 03/072625 A1	09-04-2003	Luvantix Co., LTD		
	109	WO 05/101466 A2	10-27-2005	University of North Carolina at Chapel Hill and North Carolina State University		
	110	WO 06/083311 A2	08-10-2006	Tomasino <i>et al.</i>		

OTHER DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, e11tc.), date, page(s) , volume-issue number(s), publisher, city and-or country where published.		English Language Translation Attached
	111	AMEDURI, B. and B. BOUTEVIN, "Update on Fluoroelastomers: From Perfluoroelastomers to Fluorosilicones and Fluorophosphazenes," <i>Journal of Fluorine Chemistry</i> , 2005, pp. 221-229, Vol. 126, Elsevier.		
	112	BONGIOVANNI, R., <i>et al.</i> , "Fluorinated Networks Through Photopolymerisation Processes: Synthesis, Characterization and Properties," <i>J. Fluor. Chem.</i> , 2004, pp. 345-351, Vol. 125, Elsevier.		
	113	BONGIOVANNI, R., <i>et al.</i> , "Perfluoropolyether Structures as Surface Modifying Agents of UV-Curable Systems," <i>Macromol. Chem. Phys.</i> , 1998, pp. 1099-1105, Vol. 199.		
	114	CHOI, W.M. and O.O. PARK, "A Soft-Imprint Technique for Direct Fabrication of Submicron Scale Patterns Using a Surface-Modified PDMS Mold," <i>Microelect. Eng.</i> , 2003, pp. 131-136, Vol. 70, Elsevier.		
	115	CHOU, S.Y., <i>et al.</i> , "Imprint of Sub-25 nm Vias and Trenches in Polymers," <i>Appl. Phys. Lett.</i> , 1995, pp. 3114-3116, Vol. 67(21).		
	116	COLBURN, M., "Capillary Fill Time & Meniscus Shape: An Asymmetric, Nonequal Contact Angle, Coplanar Cavity Study," <i>ChE 385 Project Report</i> , Available Online at Willson.cm.utexas.edu- ...-Surface_Phenomena-Spring1999 Asymetric_Noonequal_contact_angle_capillary_study, Dec. 3, 1998.		
	117	HAATAINEN, T and J. AHOPELTO, "Step & Stamp Imprint Lithography: A Versatile Method for Nanoimprinting," presented at the NNT Conference, December 11-13, 2002 at San-Francisco, CA.		

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	118	HAATAINEN, T., and J. AHOPELTO, "Pattern Transfer Using Step & Stamp Imprint Lithography," <i>Physica. Scripta.</i> , 2003, pp. 357-360, Vol. 67.	
	119	HAATAINEN, T., <i>et al.</i> , "Step & Stamp Imprint Lithography Using a Commercial Flip Chip Bonder," <i>Proceeding of SPIE's 25<sup>th</sup> Annual International Symposium Of Microlithography, Emerging Lithographic Technologies IV</i> at Santa Clara, CA, 2000, pp. 1-	
	120	HAISMA, J., <i>et al.</i> , "Mold-Assisted Nanolithography: A Process for Reliable Pattern Replication," <i>J. Vac. Sci. Technol.</i> , 1996, pp. 4124-4128, Vol. B14(6).	
	121	HULTEEN, J.C. and C.R. MARTIN, "A General Template-Based Method for the Preparation of Nanomaterials," <i>J. Mater. Chem.</i> , 1997, pp. 1075-1087, Vol. 7(7).	
	122	JACKMAN, R., <i>et al.</i> , "Fabricating Large Arrays of Microwells with Arbitrary Dimensions and Filling Them Using Discontinuous Dewetting," <i>Analytical Chemistry</i> , 1998, pp. 2280-2287, Vol. 70(11).	
	123	KRAUSS, P., <i>et al.</i> , "Fabrication of Nanodevices Using Sub-25 nm Imprint Lithography, Presented at NanoStructure Laboratory, Department of Electrical Engineering, University Of Minnesota, Minneapolis, MN, pp. 194-195.	
	124	MARZOLIN, C., <i>et al.</i> , "Fabrication of Glass Microstructures By Micro-Molding of Sol-Gel Precursors," <i>Adv. Mater.</i> , 1998, pp. 571-574, Vol. 10(8).	
	125	SUH, K.Y., <i>et al.</i> , "Capillary Force Lithography," <i>Adv. Mater.</i> , 2001, pp. 1386-1389, Vol. 13(18).	
	126	SUH, K.Y., and H.H. LEE, "Capillary Force Lithography: Large-Area Patterning, Self-Organization, and Anisotropic Dewetting," <i>Adv. Funct. Mater.</i> , 2002, pp. 405-413, Vol. 12(6+7).	
	127	TAN, H., <i>et al.</i> , "Roller Nanoimprint Lithography," <i>J. Vac. Sci. Technol.</i> , 1998, pp. 3926-3928, Vol. B16(6).	
	128	TROMBETTA, T., <i>et al.</i> , "Novel Branched Fluorinated Oligourethane Cationomers for Low Surface Tension Treatments," <i>Progr. Colloid. Polym. Sci.</i> , 2004, pp. 47-53, Vol. 124.	

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	129	TURRI, S., <i>et al.</i> , "Novel Glass Fiber-Reinforced Composites Having a UV and Peroxy Curable Fluoropolymer Matrix," <i>Macromol. Mater. Eng.</i> , 2003, pp. 708-716, Vol. 288(9).	
	130	WOOD, C.D., <i>et al.</i> , "New Fluoropolymer Materials," <i>J. Fluor. Chem.</i> , 2004, pp. 1671-1676, Vol. 125, Elsevier.	
	131	XIA, Y., <i>et al.</i> , "Complex Optical Surfaces By Replica Molding Against Elastomeric Masters," <i>Sci. New Series</i> , 1996, pp. 347-349, Vol. 274(5273).	
	132	YIN, Y. and Y. XIA, "Self-Assembly of Monodispersed Spherical Colloids into Complex Aggregates with Well-Defined Sizes, Shapes, and Structures," <i>Adv. Mater.</i> , 2001, pp. 267-271, Vol. 13(4).	

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